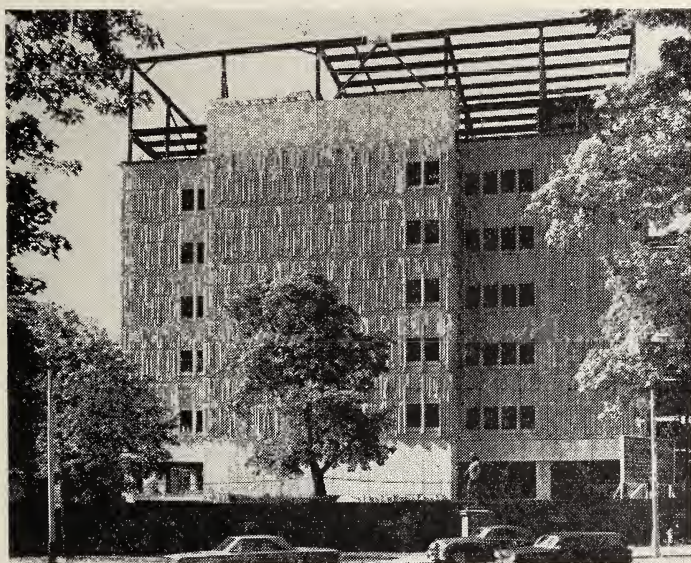




Corner-stone for the Medical Sciences Building will be set on December 7 by the Honourable Matthew Dymond, the Minister of Health for Ontario. In this photograph Dr. Dymond stands between the Vice-President for Health Sciences, Dr. John Hamilton, and the Dean of Medicine, Dr. A. L. Chute. View of the building is from Queen's Park Crescent.



DECEMBER 1967

STAFF

bulletin

UNIVERSITY OF TORONTO





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DECEMBER EVENTS

1 FRIDAY

Athletics

Hockey. Queen's at Varsity. Varsity Arena. 8 p.m.

2 SATURDAY

Lecture

Royal Canadian Institute. "The Lobster and Lobster Research". Dr. D. W. McLeese, Lobster Investigation, Fisheries Research Board of Canada, Biological Station, St. Andrews, N.B. Convocation Hall. 8.15 p.m.

3 SUNDAY

Music

University of Toronto Concert Band; conductors: Prof. Robert A. Rosevear and Prof. Ward K. Cole. MacMillan Theatre, Edward Johnson Building. 3 p.m. No tickets required. Free.

Youth Concert, with full orchestra conducted by Wilson Swift. Scarborough College. 3.45 p.m.

Hart House Sunday Evening Concert. CBC Music Committee presents the Festival Singers. Great Hall. 9 p.m. Ladies may be invited by members. Tickets available from the hall porter.

4 MONDAY

Lecture

Graduate Department of French. "Les monstres dans la pensée du 16e siècle". Prof. Jacques Roger, University of Orléans-Tours; visiting professor, University of New York at Buffalo. Room 106, U.C. 4.10 p.m.

5 TUESDAY

Meeting

Academy of Medicine Stated Meeting. "Tumor Growth". Prof. Vincent P. Collins, Baylor University, Texas Medical Centre, and Dr. Sumner Wood Jr., Johns Hopkins Medical Centre. Osler Hall. 8.30 p.m. Supper at the Academy at 6.30 p.m.

6 WEDNESDAY

Lectures

Department of Political Economy and School of Graduate Studies. "Development and Insurgency in Northeast Thailand". Dr. F. R. von der Mehden, Professor of Political Science, and chairman, East Asian Studies Program, University of Wisconsin. Room 2102, Sidney Smith Hall. 4 p.m.

"Aspects of Evolution in Fossil Vertebrates" series. "A Reptile Becomes a Bird". Dr. W. E. Swinton, Centennial Professor. Room 2117, Sidney Smith Hall. 4 p.m.

Frontiers of Science series. "The Uniqueness of the Great Lakes". Dr. A. D. Misener. Erindale College, Mississauga Road North. 8 p.m.

Graduate Department of English. Prof. E. D. H. Johnson, Princeton University. Upper Library, Massey College. 8.30 p.m.

Academy of Medicine, Orthopaedic Surgery section. "Congenital Pseudarthrosis of the Tibia". (A follow-up Study of Cases seen at the Hospital for Sick Children.) Jose Bernal. "Destructive Lesions of the Spine Occurring in Late Cases of Marie-Strumpell Spondylitis". E. A. Silverstein. "A Visit to Australia and New Zealand as a Guest of the Australian and New Zealand Orthopaedic Association". A report by F. P. Dewar. Osler Hall. 8.30 p.m. Buffet available from 6.30 p.m.

Tour

Ten-to-One Tour. Free tour through the new Gallery of Mineralogy. ROM Main Rotunda. 12.50 p.m.

7 THURSDAY

Lectures

Department of Political Economy and School of Graduate Studies. "Eighteenth-Century Agriculture: Evolution or Revolution?—Agriculture on the Continent of Europe". Prof. Bernard H. Slicher van Bath, Agricultural University of Wageningen, Holland, visiting professor in Economics, University of Chicago. Room 159, Lash Miller Chemical Laboratories. 3 p.m.

Ninth Annual Dr. Harry Shields Lecture. "The Uses of Anesthetic Potency". Dr. Edmon I. Eger II, Department of Anesthesia, University of California, San Francisco. Lecture Theatre, Toronto General Hospital. 4.30 p.m.

8 FRIDAY

Lecture

Pontifical Institute of Mediaeval Studies. "Orthodoxy and its Historical Relations with the Roman Catholic Church". Deno Geanakoplos, Yale University. Teefy B, St. Michael's College. 3.10 p.m.

Supper

Lobster Buffet Supper. Faculty Club. 5.30 to 8 p.m.

Party

"After the Fall". Smorgasbord. Great Hall, Hart House. \$1.25 per person. Poetry reading and folk singing in Arbor Room. Films in Music Room. Ladies must be escorted by members.

Athletics

Hockey. McGill at Varsity. Varsity Arena. 8 p.m.

9 SATURDAY

- Lecture Royal Canadian Institute. "The Antigonish Movement in Retrospect". Dr. Alexander Fraser Laidlaw, General Secretary, Co-operative Union of Canada, Ottawa. Convocation Hall. 8.15 p.m.
- Athletics Water Polo. McGill at Varsity. 2 p.m.
Wrestling. Waterloo at Varsity. 2 p.m.
Fencing. Rochester Tech at Varsity. 1 p.m.
All in Hart House.

10 SUNDAY

- Film "Emil and the Detective", a German film suitable for the family. Museum Theatre. 2 p.m. Free.
- Music All-Scarborough Public School Choir. Scarborough College. 3.45 p.m.
Hart House Orchestra and University of Toronto Chorus present a choral concert. Great Hall, Hart House. 8.30 p.m. Tickets: S.A.C. and Hart House.

12 TUESDAY

- Lectures Departments of History and Italian and Hispanic Languages and Literatures. "The Historical Literature of the Spanish Conquest of America". Prof. Lewis Hanke, University of California, Irvine. Room 158, Lash Miller Chemical Laboratories. 4 p.m.
United Nations Association in Canada and the Division of University Extension. "Rights of Children". Dr. Wilson Head, Director of Planning and Research, Social Planning Council of Toronto. Scarborough College. 8 p.m. Tickets \$1.25.
Faculty of Architecture, Urban & Regional Planning and Landscape Architecture. "Berber Architecture and Music" illustrated lecture by David Hicks of England. Room 103, 230 College Street. 8 p.m.

13 WEDNESDAY

- Lectures "Determinants of Organizational Adaptability". Prof. D. Bunker, School of Business Administration, State University of New York at Buffalo. (Previously scheduled for Nov. 8.) School of Business. 4 p.m.
Departments of History and Italian and Hispanic Languages and Literatures. "The Perils and Possibilities of an Academic Program in LAS". Prof. Lewis Hanke, University of California, Irvine. Common Room, Second Floor, Sussex Court. 4 p.m.
"Mammal-like Reptiles and True Mammals". Dr. W. E. Swinton. Room 2117, Sidney Smith Hall. 4 p.m.
- Theatre The *Poculi Ludique Societas* will present a production of two plays from the Towneley Mystery Cycle, the *Mactacio Abel* and the *Processus Noe Cum Filiis*, directed by Reiner Sauer, at 8.30 p.m. on Dec. 13 and at 2.15 p.m. on December 14, 15, 16 and 17. West Hall, University College.
- Tours Ten-to-One Tours. Two tours, one through the "Living Legacy" exhibition, the other in the Hall of Fossil Invertebrates. Both start at 12.50 p.m. in the ROM Main Rotunda.

14 THURSDAY

- Music Thursday Afternoon Series. Faculty of Music Concert Choir, conducted by Elmer Iseler. Concert Hall, Edward Johnson Building. 2 p.m. No tickets required. Free.
- Seminar Institute of Aerospace Studies. "Research Management Seminar No. 3". Dr. R. Whitehead, Science Secretariat. Main Lecture Room. 2 p.m.

15 FRIDAY

- Athletics Hockey. Laval at Varsity. Varsity Arena. 8 p.m.

16 SATURDAY

- Athletics Wrestling. Ryerson at Varsity. Hart House. 2 p.m.

17 SUNDAY

- Music Christmas Concert at Scarborough College. 3.45 p.m.
- Service Massey College Chapel Service. Music by Benjamin Rogers, Thomas Tallis, Michael Wise and Orlando Gibbons. 5 p.m.

20 WEDNESDAY

- Lunch Faculty Club Christmas Luncheon for members only. 12 noon to 2 p.m.
- Lecture "Mammals and the Emergence of Man" last of six lectures in "Aspects of Evolution in Fossil Vertebrates" series by Dr. W. E. Swinton. Room 2117, Sidney Smith Hall. 4 p.m.
- Tour Ten-to-One Tours. A special Christmas season tour through the Renaissance Galleries of the ROM. Museum Main Rotunda. 12.50 p.m.

27 WEDNESDAY

- Tour Ten-to-One Tours. A special Christmas season tour through the Renaissance Galleries of the ROM. Museum Main Rotunda. 12.50 p.m.

30 SATURDAY

- Ball Faculty Club New Year's Eve Ball. Buffet Supper, 7 to 10 p.m.; dancing 9 p.m. to 1 a.m. Reservations (and cancellations) close Dec. 9.

31 SUNDAY

- Ball Hart House New Year's Eve Ball. Dancing 9 p.m. to 3 a.m. Splash Party; Grand March at 10 p.m. Folk Singers; Midnight Dinner. Great Hall. Price to be announced.

DEADLINE: DECEMBER 15

STAFF BULLETIN is published by the Department of Information, University of Toronto, and edited by Mrs. Winogene Ferguson. Copy for the January issue must reach the editor (Room 225, Simcoe Hall, telephone 928-2102) *not later than December 15.*

Victoria College

PUBLIC LECTURE SERIES

- Jan. 16 *Erasmus and Luther* (Lecture I)
Dr. Roland H. Bainton
Professor Emeritus of Divinity
Yale University
- Jan. 17 *Erasmus and Luther* (Lecture II)
Dr. Roland H. Bainton
- Jan. 23 *The Idea of Vehemence in Marston, Milton and Donne*
A. M. Endicott
Department of English
Victoria College
- Jan. 30 *Canada and the Pax Americana*
John W. Holmes
Director-General
Canadian Institute of International Affairs
and Visiting Professor of International Affairs
University of Toronto

Lecture Hall, Academic Building
at 4.30 p.m.

Exhibitions

"Living Legacy: A Tribute to Sigmund Samuel". A representative show of paintings, Canadiana, Greek artifacts, Chinese books and oriental textiles obtained by the Museum through the assistance of the late Dr. Samuel. Exhibition Hall. Until Dec. 26.

"Discovery and Mapping of Upper Canada". Fifty maps, including two by explorer David Thompson, showing how knowledge expanded about Canada west of Quebec. Sigmund Samuel Canadiana Building, 14 Queen's Park Cres. W. Until Dec. 30.

"Saturday Morning Club Art". Artwork of some 250 youngsters, ages 8 to 14. Lower Rotunda Dec. 14-Jan. 7.

"Stamps". Displays of interest to philatelists are shown in the ROM Lower Rotunda.

"Gallery of Mineralogy". The latest permanent gallery at the ROM now is open to the public. Off the Museum Main Rotunda.

"Dorset Night". An exhibition of sketches and painting done by architecture and landscape architecture students at Dorset Sketch Camp, 1967. Dec. 1 to 10. 230 College Street.

"Wild Life, Scientific and Other Studies". An exhibition of photographs by Norman Hatton, chief photographer, Zoology Department. Erindale College. Monday through Saturday, Dec. 4 to 20.

Erindale Bus Service

The shuttle bus service between the St. George Campus and Erindale College now provides transportation for staff and students at approximately hourly intervals, Mondays to Fridays.

From Convocation Hall buses depart for the college at 8 a.m., 10.15 a.m., and on the quarter after each hour until the final trip for the day at 4.15 p.m.

From Erindale College buses leave for

Convocation Hall on the quarter after each hour from 9.15 a.m. until 5.15 p.m.

Staff members who do not wish to return to the St. George Campus may take buses which leave Erindale College at 5.15 p.m. for the Keele Street subway station and the GO Transit station at Clarkson. The latter trip connects with a Toronto-bound train leaving Clarkson GO station at 5.37 p.m. and an Oakville-bound train at 5.33 p.m.

University of Toronto Senate:

Summary of Minutes, Oct. 13, 1967

(1) The minutes of the meeting of October 13, 1967 were approved.

(2) The Senate received the following communications:

(a) Letter of appreciation from Mrs. Gordon for the expression of sympathy by the Senate at the death of Dean Andrew Robertson Gordon;

(b) A statistical report on enrolment for the session 1967-68 from the Director of Statistics and Records;

(c) Letter from Professor Stackhouse suggesting publication of a fuller summary of Senate minutes. This letter was referred by the Senate to the Executive Committee for study and report.

(3) The Senate approved the report on final examination results in all Faculties, Schools and Institutes.

(4) The Senate approved the report on degrees and diplomas to be conferred at the Fall Convocation 1967 for all Faculties, Schools and Institutes.

(5) The Senate approved a report of the Council of the School of Graduate Studies recommending:

(i) amendments to the Course of Study for the 1967-68 Session

(ii) recommending appointment of non-University lecturers for the 1967-68 Session.

(6) The Senate approved a report of the Committee on University Extension;

(i) reporting on enrolment to October 15, 1967

(ii) recommending appointment of non-University examiners for 1968 for the Certificate Courses in Business and Criminology.

(7) The Senate approved a report of the Committee on Scholarships and Other Awards concerning 9 new awards, 7 amendments to existing awards, and 7 withdrawals of awards.

(8) The Senate received a report of the Special Committee to Study the Composition of the Senate recommending:

(a) That there be student representation on the Senate;

(b) That Faculty representation remain unchanged;

(c) That Graduate representation be redistributed.

The Senate referred the report to the Executive Committee for further study.

(9) The Senate gave first reading to the following Statutes:

(a) amending the Courses of Study and Calendar in the Faculty of Applied Science and Engineering for the Session 1967-68

(b) amending the Courses of Study and Calendar in the Faculty of Food Sciences for the Session 1967-68

(c) amending the Courses of Study and Calendar in the Faculty of Music for the Session 1967-68

(d) amending the Courses of Study and Calendar in the School of Graduate Studies for the Session 1967-68

(e) amending the Courses of Study and Calendar in the School of Hygiene for the Session 1967-68

(f) amending the Courses of Study and Calendar in the Faculty of Forestry for the Session 1967-68.

(10) The Senate gave second reading to the following Statutes:

(a) amending the Courses of Study and Calendar in the Faculty of Medicine for the Session 1967-68

(b) providing for a change in name of the degree Bachelor of the Science of Forestry to Bachelor of Science in Forestry

(c) respecting the establishment of the degree of Ph.D. in Linguistics

(d) amending the Courses of Study and Calendar in the Faculty of Arts and Science for the Session 1967-68

(e) respecting the establishment of the Diploma in Industrial Health in the School of Hygiene.

President's Council Subcommittee on Resource Planning named

John H. Sword, the Acting President, has established on the advice of the President's Council a subcommittee of that council under the chairmanship of Robin Ross, Vice-President and Registrar. The terms of reference are:

(1) To establish and maintain a classified inventory of space and facilities.

(2) To investigate the efficiency of the University's use of the space it now has, including the possibilities of improving such efficiency by suitable renovation and re-scheduling of uses.

(3) To investigate the availability of additional space for each of the next five or six academic years,

(a) in major buildings already begun,

(b) in major buildings being planned, and

(c) in other locations that might be acquired.

(4) To consider the forecasts of funds available for additional staff, space and facilities for the next five or six years:

(a) under the operating grants formula,

(b) through the present arrangements with the Ontario Universities Capital Aid Corporation and under any formula for capital grants that may be established by the Provincial Government, and

(c) from other sources,

and to make reports thereon to the President's Council.

(5) To study the stated objectives of the teaching and service divisions of the University in relation to the resources likely to be available during the same period of years, and to recommend to the President's Council priorities in the allocation of resources; such study to be in general terms as among the major divisions, not reaching down into the detailed treatment of departments within a faculty; such recommendations to include limitations of enrolment in specific areas if and when necessary.

(6) To keep under review the general social climate and the needs that may arise in areas of major social importance, and to make recommendations to the President's Council on changes or new developments in the structure of the University to meet such needs.

The Subcommittee on Resource Planning will meet at least monthly throughout the academic year, generally on the third

Wednesday of the month, and will report regularly to the President's Council. The membership in addition to the chairman is as follows: Dean A. D. Allen, Faculty of Arts and Science; Prof. D. F. Forster, Vice-Provost and Executive Assistant to the President; Dean J. M. Ham, Faculty of Applied Science and Engineering; Dr. John Hamilton, Vice-President (Health Sciences); Bertrand L. Hansen, Director of Institutional Research and Special Assistant to the President; Principal Douglas LePan, University College; Alex. G. Rankin, Executive Vice-President (Non-Academic); Prof. Howard Rapson, Department of Chemical Engineering; Dr. Gilbert Robinson, Vice-President (Research Administration); Dean Ernest Sirluck, School of Graduate Studies; Dr. M. St.A. Woodside, Vice-President and Provost; and Mrs. Frances Ireland, Research Assistant to the President (secretary).

October, November meetings

In pursuance of its desire to hear directly about the situation of various parts of the University, the President's Council invited Dean Sisam to its October meeting, and discussed with him at considerable length the future plans and current problems of the Faculty of Forestry. The Council subsequently referred the matter to its Subcommittee on Resource Planning.

The Council was informed that the presidents of the Ontario universities had decided that at the September meeting of the Committee of Presidents of Universities of Ontario, each president should be accompanied by an academic colleague. The Acting President, Mr. Sword, with the concurrence of all the elected members of the Council, had invited Professor Kenneth McNeill to that meeting. The Council recommended that—given the approval of the Chairman of the Association of the Teaching Staff, and pending any formal restructuring of the CPUO that might take place—the Acting President should choose his academic colleague for any similarly expanded CPUO meeting from among the elected members of the President's Council, and that normally Professor McNeill should be chosen.

At its November meeting the Council discussed in detail the brief from the University of Toronto on "The Relationship with the Federal Government for Support of Research in the Universities", prepared

for Dr. John B. Macdonald's study of Support of Research in the Universities, and suggested clarifications and additions, both in content and in emphasis, that might be brought forward when the Macdonald Committee visits this University in January, 1968.

Membership of the Council

Ex officio

The President (or Acting President)
The Provost and Vice-President (Academic), Acting Chairman of the Council.
The Executive Vice-President (Non-academic)
The Vice-President (Administration)
The Vice-President (Research Administration)
The Vice-President (Health Sciences)
The Vice-President and Registrar
The Dean of the Faculty of Arts and Science
The Dean of the Faculty of Medicine
The Dean of the Faculty of Applied Science & Engineering

The Dean of the School of Graduate Studies

The Chairman of the Planning Division

Three members of the Board of Governors, as selected by the Chairman of the Board.

Elected members (3-year terms)

Constituency A — Faculty of Arts & Science: Prof. J. B. Conacher (Humanities and Social Sciences); Prof. K. G. McNeill (Sciences); Prof. L. E. Lynch (Federated Colleges).

Constituency B — Faculty of Medicine: Dr. J. C. Laidlaw.

Constituency C — Faculty of Applied Science and Engineering, Forestry, Architecture, Computer Science: Prof. W. H. Rapsom.

Constituency D — Law, Social Work, Business, PHE, Child Study: Prof. Albert Rose.

Constituency E — Dentistry, Hygiene, Nursing, Pharmacy: Prof. G. C. Walker.

Secretariat

Prof. D. F. Forster and Mrs. F. A. Ireland.

Appointments and Promotions

Arts and Science

M. E. MARMURA has been appointed acting associate chairman of the Department of Islamic Studies from Jan. 1, 1968, and associate chairman from July 1 next.

E. B. MACDOUGALL has been promoted to assistant professor in the Department of Geography.

Medicine

ROBERT STANLEY JULIUS has been appointed director of Medical Computing Facilities and professor of Medical Education, effective Jan. 1 next. He also has a part-time appointment as professor in the Institute of Computer Science. Dr. Julius has been associate professor and assistant head of Computing Science on the University of Alberta's Edmonton campus.

Dr. Julius earned his B.A. in applied mathematics and his M.A. at the University of British Columbia. After work in the Structures Laboratory of the Mechanical Engineering division of the National Research Council in Ottawa he spent a year with industry. In 1961 he was appointed manager of the Computing Centre of the University of Alberta. He gained his Ph.D. in theoretical physics the following year, for work on a solid state problem.

Some years ago Dr. Julius attracted attention outside his own specialized field of

mathematics when he used a mathematical model to provide new insight into the way in which cells, and particularly malignant cells, reproduce in the presence of anti-cancer chemicals or radiation.

Promotions to assistant professor have been made to N. FORBATH and J. L. RUSE (Medicine).

A. KUKSIS has been promoted to associate professor in the Banting and Best Department of Medical Research.

Postgraduate Medical Education

On Sept. 1, J. O. GODDEN, a graduate of Dalhousie University and, until recently, an associate editor of Canadian Medical Association Publications, joined the Division as assistant to the director.

Hygiene

W. H. R. LUMSDEN of the University of Edinburgh will be visiting professor in the Department of Parasitology from January to the end of March, 1968.

Architecture

PETER PRANGNELL has been appointed professor in the Department of Architecture. Prof. Prangnell, born in England, received his architectural education at the Medway College of Art, the Northern Polytechnic,

London, and the Architectural Association School. After six years of professional experience in Great Britain he was awarded a King George VI Memorial Fellowship to study at Harvard; his degree of Master of Architecture was conferred in 1959. He worked in the office of José Sert from 1959-60 and then returned to the Architectural Association to teach and re-establish his private practice.

In 1962 Prof. Prangnell was invited to Harvard and taught the Master's class in

architecture and the first and second undergraduate years. In 1964 he joined the staff of Columbia University and for three years he worked on the revision and development of their first year program.

Prof. Prangnell will assume responsibility for the first year of our undergraduate program and will coordinate the work of the first three years of the present five-year course in architecture.

PROF. KENT BARKER has become administrative assistant to the chairman.

NOTES

Arts and Science

PROFS. J. F. HEARD, H. S. HOGG and D. A. MACRAE attended the American Astronomical Society meetings at Yerkes Observatory, Williams Bay, Wisc., June 12-15.

PROFS. HEARD and MACRAE attended a meeting of the Advisory Committee on Astronomy, in Ottawa, July 27-28.

PROFS. S. P. S. ANAND, J. D. FERNIE, MACRAE, R. C. ROEDER and E. SEAQUIST participated in the International Astronomical Union meetings held in Prague, Aug. 22-31.

PROF. FERNIE gave a talk on "Quasars" to the Royal Canadian Institute Summer School at Lakefield, Ont.

PROF. J. ROBERTS was chairman of a Radio Astronomy Session of the I.E.E.E. on Sept. 26 held in the Automotive Building, Exhibition Park.

PROF. A. G. BROOK addressed the Research Department of the Dow-Corning Corporation at Midland, Mich. on the subject "The Chemistry of Acylsilanes" on Oct. 18. He attended the E. C. Britton Symposium on Industrial Chemistry of the American Chemical Society in Midland on Oct. 19 and 20. He also gave a lecture to the Department of Chemistry, Ohio University, on "Some Reactions of Acylsilanes and Acylgermanes" on Oct. 27.

PROF. J. E. GUILLET was elected a Fellow of the Chemical Institute of Canada in June and was appointed to the Editorial Board of *Macromolecules* in October. Prof. Guillet presented a paper on "Fundamental Processes in the Photodegradation of Polymers" at the Research Laboratories, Imperial Oil Enterprises Ltd., Sarnia in April; on "Fundamental Processes in the Photodegradation of Polymers" at the 14th Canadian High Polymer Forum at Université Laval in May; on "Theory of Shock Initiation of Peroxide

Decomposition" at the Research Laboratories, Imperial Oil Enterprises Ltd., Sarnia in June.

PROF. K. YATES visited the Dow Chemical Laboratories at Midland, Mich. on Oct. 23 and gave an invited lecture on "Cyclic Bromonium Ions". He also attended a meeting of the Canadian Association of Graduate Schools in Montreal, Oct. 29-31.

PROF. P. YATES has been appointed to the Organic Chemistry Division Committee of the International Union of Pure and Applied Chemistry. Prof. Yates lectured on "The Photochemistry of Cyclic Ketones in Solution" at Simon Fraser University on Oct. 27.

Colloquia were given in the Department of Chemistry by the following visitors: Dr. G. E. WODEHOUSE, Director of University Health Service, University of Toronto; PROF. CLIFFORD C. LEZNOFF, York University.

Colloquia were also given in the Department of Chemistry under the auspices of the School of Graduate Studies by the following visitors: DR. D. M. GRUEN, Argonne National Laboratory; PROF. G. H. STOUT, University of Washington, Seattle; MR. S. MEYERSON, American Oil Company, Whiting, Indiana.

The following members of the Department of East Asian Studies attended the XXVIIIth International Congress of Orientalists, Ann Arbor, Michigan, in August: PROFS. A. K. WARDER, M. HATTORI, B. K. MATILAL, H. SADDHATISSA, C. C. SHIH, R. M. SMITH, M. UEDA, T. VENKATACHARYA, D. B. WATERHOUSE; P. BANDYOPADHYAY and R. CHU. PROF. R. M. SMITH read a paper on "Sandilya's Doctrine" there.

PROF. YUEN-REN CHAO, professor emeritus, Department of Oriental Languages and Literature, University of California and visiting professor in the Department of

East Asian Studies, conducted a series of seminars with the general title "Topics in Chinese Linguistics" and presented a lecture on "Problems in Translation" on Nov. 8.

PROF. G. RICHARD STORRY, St. Antony's College, Oxford, visited the Department of East Asian Studies to give one lecture on "Pheasant and Phoenix," Japan's Critical Century, 1867-1967", on Oct. 2, and one seminar on "Konoye and his circle: a footnote to the history of the pre-war Showa Era", on Oct. 4.

PROF. D. C. TWITCHETT, School of Oriental and African Studies, University of London, and visiting professor in the Department of East Asian Studies conducted a seminar on "Merchant, Trade, and Government in Medieval China", on Oct. 31.

PROF. W. A. C. H. DOBSON represented the Canadian National Commission for UNESCO at an International Round Table convened by the Cuban National Commission in Havana, Oct. 26-29, and visited El Colegio de México, Mexico City, for consultations on his return. Prof. Dobson read a paper, "A New Look at the Problems of the *Book of Songs*", at the XVIIth International Congress of Orientalists, Ann Arbor, Aug. 13-19. On Oct. 16, he gave a lecture on "China and the World Conflict" in the United Nations Lecture Series at McGill University.

PROF. JACOB SPELT gave the keynote address at the meeting of the East Lakes Division of the American Association of Geographers in Windsor on Oct. 20. He spoke on "Urban Growth in the Netherlands".

DR. D. P. KERR has been appointed a member of the National Advisory Committee on Geographical Research.

PROF. NATALIE Z. DAVIS attended the Newberry Library Renaissance Conference in Chicago in April and served as commentator on the papers on "Sixteenth-Century French Historiography". In May, she gave two papers at the University of Paris: "Bienfaisance, humanisme, hérésie—le cas de Lyon" to the Centre de Recherches d'histoire du Moyen-Age and "Grèves et querelles ouvrières à Lyon au 16e siècle" to the Centre de Recherches sur la civilisation de l'Europe Moderne. The latter paper was also presented before the Société Historique, Archéologique et Littéraire de Lyon.

PROFS. L. LOCKHART and R. M. SAVORY lectured at the Institute of Islamic Studies, McGill University, in a series arranged jointly by the Institute and the Government

of Iran to celebrate the coronation of His Imperial Majesty, the Shahanshah of Iran. Prof. Lockhart spoke on "Isfahan", on Oct. 24 and Prof. Savory on "Persian Nationalism" on Oct. 23. Prof. Lockhart also lectured to the Oriental Club on Nov. 7 on "The Decline and Fall of the Safavid Dynasty".

Several members of the Department of Italian and Hispanic Studies attended the Fall meeting of the Ontario Chapter of the American Association of Teachers of Spanish and Portuguese at the University of Windsor, Oct. 28, PROF. EVELYN RUGG serving as secretary-treasurer. Miss ELIZABETH NISSEN, visiting professor of Italian, spoke on "Reminiscences about my Classmate Pedro Henriquez Ureña".

PROF. KURT L. LEVY has been appointed delegate of the American Association of Teachers of Spanish and Portuguese in the Advisory Assembly of the American Council of the Teaching of Foreign Languages (ACTFL). He attended the AUCC Centennial Conference in Montreal and participated in Workshop VIII—Universities and the International Community. Prof. Levy visited the University of the West Indies in Barbados from July 30 to Aug. 1 and delivered a lecture on "Aspectos de la novela moderna de Colombia".

PROF. C. O. HINES was convenor of a symposium on Upper Atmospheric Winds, Waves and Ionospheric Drifts at the General Assembly of the International Association of Geophysics and Aeronomy in St. Gallen, Switzerland, on Oct. 3-4, and he presented three papers. He then participated on Oct. 5-6 in meetings of the U.R.S.I. Panel on Ionospheric Drifts, and of the Inter-Union Commission on Solar-Terrestrial Physics, in Appenzell and St. Gallen.

PROF. J. V. IRIBARNE attended the meeting of the International Union of Geodesy and Geophysics (IUGG) in Switzerland, taking part in the Session on Cloud Physics of the IAMAP (International Association of Meteorology and Atmosphere Physics) as a discussor on "Hail Prevention", in Lucerne, Sept. 27.

PROF. R. LIST attended the Conference on Severe Local Storms in St. Louis, Mo., Oct. 19-20, and presented a paper entitled "Growth and Feedback Mechanisms of Hailstones in One-dimensional Steady State Model Clouds".

PROF. D. PAUL visited the University of British Columbia in October and gave a seminar entitled "Current research with the Toronto Linac". He also visited Stanford

University and the General Atomic Laboratories in San Diego.

PROF. B. P. STOICHEFF was invited to participate at the 3rd U.S.S.R. Conference on Nonlinear Optics held at Erevan, Armenia, Oct. 20-27. He presented a paper entitled "Stimulated Raman Scattering in Diamond" and gave brief reports on other laser research in his laboratory. He visited the laser laboratories of the Lebedev Physics Institute in Moscow and the Academy of Sciences in Erevan.

PROF. L. E. H. TRAINOR visited the University of Windsor on Nov. 7, and gave a seminar on "Liquid Helium and the Properties of Bose-Einstein Systems in Finite Geometries".

PROF. J. VAN KRANENDONK attended the International Conference on Localized Excitations in Solids at the University of California, Irvine, Oct. 18-25, and presented a paper on "Localized Excitations in Solid Hydrogen". On Nov. 2, he gave a colloquium on "Spin-Lattice Relaxation".

PROF. D. YORK gave a lecture in the Department of Geology, Oxford, entitled "Geochronology in Toronto" on Sept. 18. He was a Canadian delegate at the International Union of Geodesy and Geophysics in Zurich from Sept. 25 to Oct. 7.

In the Department of Physics, seminars were recently given by the following visitors: DR. B. COOBLIN, Laboratoire de Physique Solide, Orsay; DR. R. G. GORDON, Harvard University; DR. S. KIM, University of Illinois; PROF. G. C. MCVITTIE, University of Illinois Observatory, Urbana; PROF. R. NOVICK, Columbia University; DR. P. M. PLATZMAN, Bell Telephone Laboratories, Murray Hill; DR. L. R. O. STOREY, French National Centre for Scientific Research, St. Maur, France.

PROF. G. T. GILBERT acted as director of a four-week summer school put on by the Department of University Extension for students working toward their C.A. diploma. He also lectured at this school from July 31 to August 25. Professor Gilbert acted as coordinator of a two-week pre-exam school in May for students about to write the intermediate examination in the C.A. course, and also lectured at the same course. In June, Prof. Gilbert delivered a series of lectures on Management Accounting for Architects as part of the Registration Course for the Ontario Association of Architects. He attended the annual conference of the American Accounting Association held at State College, Pa., Aug. 28-31.

PROF. A. AMSEL has recently returned

from a year in London, where he was senior postdoctoral fellow of the National Science Foundation at University College. During this year he visited psychological laboratories in England and parts of Europe and addressed student and faculty groups.

PROF. C. R. MYERS attended a meeting of the Committee on International Exchange of the International Union of Scientific Psychologists in Washington, D.C. on Nov. 10 and 11.

PROF. ENDEL TULVING was a guest lecturer at the NATO Advanced Studies Institute, held in Cambridge, England, on Aug. 12. The topic of the Institute was "Techniques and Assessment of Short-term Memory". He gave a lecture at the University of Minnesota on Nov. 2 on "Effectiveness of Retrieval Cues in Memory for Verbal Material". He also held a seminar at St. Olaf College, Northfield, Minn. on Nov. 3 on "Organization and Memory".

The Department of Psychology has been visited by PROF. J. LINHART, Director of the Laboratory of Learning, Psychological Institute, Czechoslovak Academy of Sciences, Prague, Oct. 30-Nov. 3. He spoke on "Instrumental Learning and Exploratory Motivation" on Nov. 1.

PROF. N. W. BELL presented a paper in conjunction with Captane P. Thomson, M.D. on "Models for the Evaluation of a Rural Community Mental Health Program" at the Western Regional Meeting of the American Psychiatric Association in Los Angeles, on Oct. 21.

PROF. C. TILLY became co-chairman of the history panel and a member of the central planning committee, Behavioral and Social Sciences Survey (National Academy of Sciences-Social Science Research Council, U.S.A.). He has been awarded a fellowship to the Center for Advanced Study in the Behavioral Sciences (Palo Alto) for 1968-69. He recently lectured at the Summer Institute on Quantitative History, Cornell University, Northwestern University and the Summer Institute in Sociology and History, Sir George Williams University.

PROF. I. WEINBERG read a paper "The Problem of the Convergence of Industrial Societies, A Critical Look at the State of a Theory" at the meetings of the American Sociological Association. At the end of October he participated in a conference sponsored by the Social Science Research Council on Research on the History of the Family, held in the Museum of History and Technology in Washington, D.C.

PROF. H. K. NISHIO presented a paper

"A Comparative Analysis of the Soka Gakkai and Rissho Koseikai" to the Asiatic Society of Japan in Tokyo while on his leave of absence in Japan.

MRS. J. KELNER presented a paper to the Ontario Association of Registered Nurses entitled "Changing Social Patterns".

PROF. L. FEUER presented a lecture entitled "The Socio-Psychological Transformation of Soviet Society" to the conference on "Fifty Years of Communism in Russia," held at the Hoover Institution on War, Revolution and Peace, Stanford University in October.

I. D. CURRIE presented a paper on "The Theory of Cultural Decay and Death: Sorokin and Kroeber" to the Canadian Sociology and Anthropology Association meetings.

PROF. K. N. WALKER read a paper entitled "Family and University Influences on the Political Socialization of Colombian and Uruguayan University Students" at the American Political Science Association Annual Meeting in Chicago.

PROF. S. D. CLARK was visiting professor at the Summer Institute of Canadian Studies, University of Calgary. He was named honorary president of the Canadian Anthropology and Sociology Association.

PROF. E. HARVEY acted as moderator of a session on Cross-cultural differences in values at a Department of Indian Affairs Conference held in London, Ont.

PROF. W. MICHELSON was a panel member at the First Annual Conference on the Socio-Physical Environment, in New York City. He presented "From Religious Movement to Economic Change: The Grundtvigian Case in Denmark" at the Canadian Sociology and Anthropology Association Meetings and "Potential Candidates for the Designers' Paradise: A Social Analysis from a Nation-wide Survey" at the American Sociological Association Meetings.

University College

PROF. F. M. HEICHELHEIM has been appointed assistant editor of the *Newsletter* of The Royal Society of Canada.

PROF. W. J. N. RUDD is to be a Fellow of University College, Cambridge, in the summer of 1968.

PROF. P. L. MATHEWS attended a symposium on "Baudelaire: Poet, Critic and Esthetician" held on Nov. 4 at Pennsylvania State University to commemorate the centenary of Baudelaire's death.

PROF. R. J. WILLIAMS represented the University of Toronto on the Board of Governors of the American Research Centre

in Egypt's meeting held in New York on Nov. 4.

PROF. D. B. REDFORD also attended the meeting of the American Research Centre in Egypt in New York.

Victoria College

PROF. JOHN M. ROBSON visited Prince of Wales College, Charlottetown, on Nov. 6 and 7 as a Centennial Professor, delivering a public lecture on "The Games We Play With Words", and two university lectures on "John Stuart Mill".

Emmanuel College

PROF. GREER W. BOYCE has returned from a sabbatical leave in which he studied the new forms of Pastoral Theology in Canadian and American centres of theological training.

PROF. JOHN WEBSTER GRANT delivered one of the Ker Lectures for 1967 at McMaster Divinity College, in October, on the topic: "The Impact of Christianity on Canadian Culture and Society, 1867-1967."

PROF. C. DOUGLAS JAY delivered the MacKay Memorial Lectures in Western Canada to the Universities of British Columbia, Alberta, Saskatchewan and Manitoba in November. The title of the series is "World Mission and World Civilization".

The Cousland Lectureship was given in Emmanuel College in November by DR. WILLIAM STRINGFELLOW of New York. The subject of the series was: "The Theology of Death as a Preliminary Ethical Insight".

St. Michael's College

PROF. G. G. BAUM addressed the Edith Stein Guild in New York last month and was the recipient of the Edith Stein Award for his contributions to better Catholic-Jewish relations. He recently lectured at a Teach-In on Religions at McMaster University; addressed the New York Baptist Convention in session at Rochester, N.Y.; was a panel participant at discussions held at the Episcopal Theological School at Cambridge, Mass.

PROF. H. M. McLUHAN was the recipient of one of the three Molson Prizes awarded by the Canada Council to distinguished Canadians for outstanding achievement in the arts, humanities and social sciences.

G. J. MATTEO took part in a panel discussion on "English for the Final Year in Secondary Schools" for the Ontario Grade XIII Curriculum Committee, Ontario Department of Education on Sept. 29.

PROF. R. J. SCHOECK participated in the

Congress and Institute on the Theology of Renewal held in Toronto, Aug. 20-25. He read a paper on "Thomas More and the Italian Heritage of Tudor Humanism" at the 4th Congress of Medieval Philosophy held at the University of Montreal, Aug. 31. Prof. Schoeck was elected to the Council of the Renaissance English Text Society.

PROF. R. B. DONOVAN attended the Festival and symposium on Medieval Drama held at St. Jerome's College, University of Waterloo, Nov. 4-5.

New College

PROF. DAVID STAGER spoke to the Ontario University Registrars' Association at their annual meeting at the University of Toronto on Nov. 9 on "The Evaluation of Candidates for Admission".

PRINCIPAL D. G. IVEY gave a keynote address "The Nonscience of Education" at the Centennial Science Teachers' Conference in Toronto on Nov. 3.

PROFS. F. GERSON and W. A. OLIVER participated in a conference on Late Eighteenth Century Editorial Problems held at the University of Toronto on Oct. 27 and 28.

Erindale College

The College held an exhibition, from Oct. 30 to Nov. 18, of the paintings of CHARLOTTE M. SCHREIBER, R.C.A., whose home and studio were on the site of the Principal's House on the Erindale Campus. Additional pictures of local historical interest by ERNEST SETON-THOMPSON and T. MOWER-MARTIN were included.

PROF. P. P. M. MEINCKE attended the International Conference on Magnetism and Magnetic Material in Boston in September. He was also co-author of a paper entitled "Effect of Acoustic & Electromagnetic Pulses on Josephson Voltage Current Characteristics", given by DR. O. M. M. MITCHELL at the symposium on Sonics and Ultrasonics, held at Vancouver, Oct. 4-6.

PROF. IRWIN M. SPIGEL presented a paper entitled "Electrolyte Balance and Deficit-Drinking in a Reptile" at a meeting of the Psychonomic Society in Chicago, Oct. 26-28.

During the past two months, PRINCIPAL J. T. WILSON has made the following speeches: Junior Science Lecture at Expo '67, Montreal on "Continental Drift", Sept. 16; Fourteenth General Assembly of International Union of Geodesy and Geophysics, Zurich, Switzerland on "Transform Faults and Magnetic Anomalies in the Ocean Basins", Sept. 21-29; Canadian Re-

search Management Association, Fifth Annual Meeting, Sheridan Park, Ontario - "The Role of Universities in Industrial Research", Oct. 5. He convened a UNESCO Symposium in Montevideo, Oct. 12-20, on Continental Drift and gave a paper entitled "Examples of Transform Faults and Their Role in Continental Displacement"; spoke at a banquet meeting in Niagara Falls of the Canadian Centennial Conference on Mining and Groundwater Geophysics "After Forty Years the Present Position and Future of Canadian Geophysics", on Oct. 25; spoke in the Erindale College inaugural series of lectures entitled Frontiers of Science on "Continental Drift" on Nov. 1; addressed the New York Academy of Science on "Transform Faults and Magnetic Anomalies in the Ocean Basins", Nov. 6; the Faculty Club of Brown University luncheon meeting on "China, From Inside and Outside", Nov. 7; and the Science Club, Brown University on "Transform Faults and Magnetic Anomalies in the Ocean Basins", Nov. 7.

Medicine

DR. B. CINADER served as a visiting professor at the University of Manitoba between March 13 and 15. On April 15 he participated in the Council meeting of the American Association of Immunologists to discuss proposals concerning an International Congress of Immunology. He participated, May 31-June 3 in the International Symposium of the Canadian Society for Immunology at Laval University, where he gave the introductory lecture, entitled "Some Immunological Consequences of Polymorphism". At the annual general meeting of the Canadian Society for Immunology, he was elected president of the Society. On June 6 Dr. Cinader gave a paper at the Cold Spring Harbor Symposium which was entitled "Allotypic Specificity and Hemolytic Capacity of Antibodies Produced by Single Cells". On July 6 he addressed the vice-president of the Town Council of Paris on behalf of the International Society for Transplantation and dealt with the role of Paris in the development of medical research. On July 7 he participated in a colloquium at the Institut Pasteur, Paris on "Commitment of Antibody-forming Cells through Receptors". On Sept. 13 and 14 he spoke at the Clinical Cancer Research Conference at Lake Couchiching on "Prospects and Perspectives in Immunotherapy". On Oct. 16 and Nov. 9, respectively, he acted as session chairman at the symposium on "Nucleic

Acids in Immunology" at Rutgers — The State University, New Brunswick, N.J. and at the 6th World Congress of the International Association of Allergology in Montreal.

DR. R. E. TURNER was keynote speaker at the annual meeting of the John Howard Society of Alberta at Red Deer on Oct. 27-28, on the subject of the establishment of forensic psychiatric services. The meeting was co-sponsored by the Alberta branch of the Canadian Mental Health Association.

DR. A. T. JOUSSE attended the Sixteenth Annual Spinal Cord Injury Conference, Veterans Administration Hospital, Long Beach, Cal., Sept. 27 to 29, and gave a paper entitled "A Follow-up Study of Life Expectancy in Paraplegia".

DR. C. M. GODFREY addressed the annual meeting of the Rehabilitation Foundation of Canada on the subject "Rehabilitation — Prospect and Retrospect". He also spoke, by invitation, to the Workers Educational Association of the Academy of Medicine on Oct. 23 on the subject "The History of Medicine in Ontario".

Postgraduate Medical Education

In the academic session 1966-1967 2,038 physicians registered for activities within the Division. Ninety-seven attended Advanced Graduate Courses in Medicine, Surgery and Obstetrics and Gynaecology. The registration noted above does not include attendance at the Division's travelling clinics, a program under which, since 1951, teams of consultants, on invitation, have visited community hospitals in various parts of the province: on Oct. 28, DR. K. W. G. BROWN and DR. N. A. WATTERS visited Timmins as guests of the South Porcupine Medical Society; on Nov. 1 DRs. R. S. MCPHEDRAN and R. IAN HECTOR held a decentralized clinic at the Kirkland and District Hospital; on Nov. 15 DRs. J. E. BOONE and J. R. HAMILTON visited the Welland County Medical Society; and on Nov. 23 and 24 DRs. B. LANGER and H. K. DONSKY visited the Thunder Bay Medical Society.

On Oct. 19 at the invitation of the Saskatchewan Division of the Canadian Medical Association, DR. R. IAN MACDONALD travelled to Regina to deliver papers on "Right Thinking in the Care of Older Patients" and "Graduate Education in Clinical Medicine" before the annual meeting of that Division. On Oct. 25 Dr. J.

ALICK LITTLE went to Warton at the invitation of the Bruce County Medical Society to speak on "Atherosclerosis". In mid-December, DR. DUNCAN A. GORDON will speak to the Kitchener-Waterloo Academy of Medicine. His subject will be "Recent Advances in Auto-Immune Disease".

At the invitation of the Albany Medical College, DRs. W. T. W. CLARKE and ALAN POLLARD represented the Faculty of Medicine in a five-state two-way radio conference. Without leaving their offices, Drs. Clarke and Pollard reached physicians in a wide area of the north-central United States on three successive Tuesdays in November. They heard and answered questions from doctors gathered in their own hospitals.

In February or March, 1968, in cooperation with the Preceptorship Committee of the Toronto Branch of the Federation of Medical Women, the Division will sponsor a three-week refresher course designed to prepare women physicians, previously inactive, for a return to active practice. DR. ADELAIDE L. FLEMING of the Hospital for Sick Children and DR. RUTH KURDYAK of the Women's College Hospital are directing the recruitment of women physicians for this program.

On September 14-16 the Division and the Faculty of Medicine, represented by DR. JAN STEINER, in collaboration with the Canadian Medical Association and Ontario Medical Association, arranged a national conference on "The Use of Audiovisual Aids in Medical Teaching — Problems and Resources". Each medical school was asked to send up to six representatives. Guest faculty included acknowledged experts from Europe, the United States and Canada. The 156 registrants included faculty members from every medical school in Canada except one, and representatives from collaborating agencies and Provincial and Federal departments.

In the period from late October to the end of November the following short courses were presented under the auspices of the Division: Radiology for Specialists, Manipulation in Medical Practice, Alcoholism and Addiction for General Practitioners offered in association with the Alcoholism and Drug Addiction Foundation, Anesthesia for General Practitioners, Seminar in Adolescent and Child Psychiatry, Refresher Course for Physiotherapists, Speech Pathology for Public Health Nurses and Gastroenterology for General Practitioners.

Law

PROF. A. S. ABEL addressed the Senior Officers' Conference of the Province of Ontario on Oct. 11 on the topic "Provincial Government". On Oct. 27 he inaugurated the Special Lecture Series of the University of Western Ontario Faculty of Law with a paper on "What Peace, Order, and Good Government?"

Applied Science and Engineering

Professors in the Department of Chemical Engineering and Applied Chemistry contributed to the 17th Canadian Chemical Engineering Conference in Niagara Falls, Ontario, Oct. 16-18. PROF. MORRIS WAYMAN participated in a session devoted to the teaching of chemical plant design, in which a student, FRANKLIN WONG, presented a paper "A Diammonium Phosphate Reactor" under Dr. Wayman's guidance. PROF. WAYMAN presented, along with two of his students, H. SALAMAT and E. J. DEWAR, a paper entitled "Chlorine Exchange Resins". PROF. M. E. CHARLES was chairman of two sessions on "Fundamentals of Fluid Mechanics" and co-authored a paper with D. BOURNE and O. FIGUEIREDO entitled "Laminar and Turbulent Flow in Eccentric Annuli". PROF. W. H. RAPSON arranged and co-ordinated a professional development course entitled "Advances in Pulp and Paper Technology", at which he lectured on "Bleaching", which was attended by 40 participants from industry and other universities. PROF. O. TRASS was chairman of a "Free Forum for Research", in which PROFS. R. L. HUMMEL and J. W. SMITH participated, and shared authorship with DR. H. J. BARTON of a paper entitled "Simultaneous Heat and Mass Transfer through Laminar Boundary Layers in Combined Forced and Free Convection". PROF. W. F. GRAYDON shared authorship with F. R. FOULKES of a paper "Hydrogen-Oxygen Ion Exchange Membrane Fuel Cells" and with H. D. GOODFELLOW of a paper "Fluid Electrification". PROF. REIN LUUS presented a paper entitled "Time Suboptimal Control of the Gas Absorber", of which V. G. CHANT was co-author. PROF. J. W. SMITH was co-chairman of two sessions on Particulate Phenomena and was also judge of a series of papers presented by graduate students. Also he was co-author of a paper presented by D. H. KING, "Wall Mass Transfer in Liquid-Fluidized Beds" and presented a discussion on heat

transfer in rough and smooth pipes. PROF. H. L. WILLIAMS also attended the conference. At this conference it was mentioned that the textbook *Optimal Control of Engineering Processes* by LEON LAPIDUS and REIN LUUS has been favourably received by many universities.

PROF. D. G. ANDREWS has been appointed student program chairman, Education Program Co-ordinator and member of the Conference Committee for the planned ANS-CNA Annual Meeting to be held in Toronto in June, 1968. He also attended the ANS Winter Meeting in Chicago, Nov. 5-9 and visited Argonne National Laboratory, Chicago.

PROF. R. E. JERVIS lectured at Expo '67 on the topic "Nuclear Energy—Friend or Foe" and participated in "Rencontre" dialogue at the Youth Pavilion in August. He attended the Universities Christian Consultation of Canada in Montreal, Sept. 8-10, as a delegate representing the Inter-Varsity Christian Fellowship and contributed to the program on "Freedom and Direction in the University". Dr. Jervis has been appointed program chairman for the Isotopes and Radiation Division of the American Nuclear Society National Meeting to be held in Toronto, June, 1968, in conjunction with the Canadian Nuclear Association annual conference. In this connection, he attended the joint American Nuclear Society-Atomic Industrial Forum Conference, Chicago, Nov. 5-6.

PROF. W. H. RAPSON presented a paper on "New Concepts for Stream Improvement by Recovery of Bleach Plant Liquors from Kraft Pulp Mills" at the Third Paper Industry Air and Stream Improvement Conference, Technical Section, Canadian Pulp and Paper Association, Vancouver, Oct. 25.

PROF. J. W. SMITH presented a talk on "The British Contribution to Applied Science and Technology" at a meeting of the science teachers in the Toronto area organized for British Week.

PROF. H. L. WILLIAMS was a member of a panel on Industry Looks at Science in Our Schools during the recent Centennial Science Teachers' Conference in Toronto.

PROFS. P. I. P. BOULTON, E. S. LEE and K. C. SMITH, attended the Fall Joint Computer Conference in Anaheim, California, Nov. 13 to 17.

DR. I. G. CUMMING attended an Eastern Simulation Council Meeting on Man-Machine Simulations at the Cornell Aeronautical Laboratories, Buffalo, on Oct. 17 and 18.

PROF. S. B. DEWAN and PROF. R. S. SEGSWORTH presented a paper on "Thyristor Converter for Induction Heating at the Industry and General Applications Conference, held in Pittsburgh, Oct. 2 to 5.

PROF. W. JANISCHEWSKYJ attended the working session of the IEEE Working Group on Computer Applications in Power Systems, held in Chicago on Oct. 24. He was specially invited to participate in deliberations on the representation of synchronous machines in computer studies of power systems.

PROF. S. D. T. ROBERTSON presented a paper entitled "A Variable Low Frequency Inverter Using Thyristors" at the Second Annual Meeting of the IEEE Industry and General Applications Group in Pittsburgh, Oct. 4.

PROF. G. SINCLAIR attended the International Symposium on Antenna and the URSI Fall Meeting in Ann Arbor, Oct. 16 to 19. He also attended meetings of various IEEE Committees in Chicago, Philadelphia and New York.

PROF. K. T. AUST gave a lecture entitled "Interfacial Hardening in Metals" at McMaster University, on Oct. 24.

PROF. I. W. SMITH attended the conference of A.S.E.E., Upper New York-Ontario Region, held in Schenectady, Oct. 6 and 7.

DR. L. E. JONES was one of the guest speakers at the Centennial Week Program held at Nova Scotia Technical College during early November. His subject was "Canadian Engineering—A Century of Achievement" and the presentation was preceded by an interview on CBC-TV "Gazette". While in Halifax, Dr. Jones visited the Atlantic Tidal Power Programming Board and the Bedford Institute of Oceanography.

PROF. S. J. G. BIRD and MR. R. G. TRESS attended the Canadian Centennial Conference on Mining and Ground Water Geophysics in Niagara Falls in October.

PROF. R. C. GUNN, on invitation of the U.S. Air Force and the Department of Geodetic Science of Ohio State University, participated in the laser measurement of the Mansfield Ohio, Vaisala base line in September.

DR. P. H. JONES has been elected chairman of the Canadian Universities Committee on Water Pollution Research. He is now arranging the 3rd Canadian Symposium on Water Pollution Research to be held at this University on Feb. 1, 1968. Dr. Jones was commissioned, during the summer months, by the Science Secretariat of the Privy

Council to undertake a national study on the state of water pollution research across Canada. His study took him from Whitehorse, Yukon, to St. Johns, Newfoundland. The report is expected to be published by the Science Council in March 1968 and is to provide guidance for national policy on the subject of water pollution research.

DR. R. M. SOBERMAN was elected vice-president, Programs and Publications, at the annual meeting of The Canadian Transportation Research Forum in Montreal, Sept. 6-9.

PROF. S. M. ABDELMESSIH presented a paper on "Investigation of Noise in UHF Diodes" at the 23rd National Electronics Conference in Chicago, Oct. 23 to 25. The paper is published in the *Proceedings of the National Electronics Conference, Volume XXIII, 1967*.

PROF. ARTHUR PORTER addressed the American Society of Mechanical Engineers—Joint Engineering Management Conference in San Francisco on Oct. 10 on "Information, Pattern and Enlightenment". On Oct. 11 he gave a lecture at the Centre for Communications at Simon Fraser University on "Man-Machine Interface—A Study in Communication", and a seminar in the Department of Fine Arts at the University of British Columbia on "Technology and Human Sensibility" on Oct. 12. Dr. Porter addressed the closing dinner of the Conference of Superintendents of Special Schools held in Milton on Oct. 13 on "Technology and Education", and the luncheon address on Oct. 21 at the Annual Engineering Conference held in St. John's and sponsored by the Association of Professional Engineers of Newfoundland and the Engineering Institute of Canada. His topic was "Industrial Engineering at Toronto". He addressed the R. J. Reynolds Tobacco Company Annual Managers Seminar on Oct. 27 in Winston-Salem, N.C. on "Systems Philosophy and the Arts of Management". On Oct. 31 Dr. Porter was the dinner speaker at the industrial Development Seminar held by the Department of Economics and Development. His speech was entitled "Culture and Technology in Partnership".

Education

DEAN D. F. DADSON visited branches of the University of the West Indies, Oct. 23-Nov. 5, in Jamaica, Trinidad and Barbados along with PROF. BREHAUT, Ontario Institute for Studies in Education, and V. S. READY, Dean, McArthur College of Education, with the purpose of developing a

long-term program of cooperation and mutual assistance between the Faculty of Education, University of the West Indies, and educational institutions in Ontario, particularly with the Ontario Institute for Studies in Education and the Ontario Colleges of Education. At the Teacher Education Conference at the Inn-on-the-Park, Nov. 10, Dean Dadson gave a short address on the changes in the teacher education program made in recent years and those under consideration for the near future.

MISS ALICE ELLIOTT attended the Third Annual Meeting of the Ontario Registrars' Association on Nov. 8 and 9.

PROF. FAY BLOSTEIN spoke to school librarians at Ottawa Valley District's Professional Development Day in Renfrew, Nov. 3. The topic was "The School Library Program".

PROF. R. G. BURFIELD attended the Ontario Association for Curriculum Development Conference held in Niagara Falls, Ont. Nov. 9-11. As consultant for Group 12, "The Art of Teaching" Prof. Burfield opened up the field of discussion for the group and supplied information or material pertinent to the discussion.

Workshops on the teaching of Home Economics were held on three Thursday evenings and three Saturdays in October and early November. Sixty-one teachers from Metropolitan Toronto and surrounding areas attended. Workshops were organized and conducted by PROF. HELEN FINNEGAN and PROF. AUDREY WARNER, with MRS. PHYLLIS MEIKLEJOHN as workshop leader.

DR. J. W. GREIG addressed an IBM Task Force on Post-Secondary Education on Oct. 19. His topic was "Trends in Teacher Education". On Oct. 21 at the Ontario Educational Research Council workshop Dr. Greig served as moderator of a panel which discussed school reorganization.

On Oct. 28, PROF. K. O. MAY spoke at the Illinois Council of Teachers of Mathematics meeting in Urbana, on "From Counting to Abstract Algebra". On Nov. 3 and 4 Prof. May attended meetings of the Institute of Current World Affairs in New York city. He is chairman of the Board of Governors.

On Nov. 7 PROFS. W. B. MACLEAN, D. L. MUMFORD and D. W. ALEXANDER conducted a workshop on "Contemporary Methods of Teaching Secondary School Mathematics" for teachers from Ajax High School and College of Education Associate Schools. PROFS. MACLEAN and MUMFORD also conducted Contemporary Methods workshops

for mathematics teachers in Montreal on Oct. 25 and in Charlottetown on Oct. 27 and 28. PROF. MACLEAN attended a meeting of the Secondary School Curriculum Committee in St. John's, Nfld., on Nov. 8. On Nov. 9 he discussed methods of teaching secondary school mathematics with fourth and fifth year students at the College of Education, Memorial University, St. John's.

PROF. A. S. NEASE was The College of Education's representative at the meeting of the Ontario Educational Research Council, Oct. 20 and 21. PROFS. NEASE and J. W. GREIG addressed a teachers' meeting at Ajax High School on the problems of relating the curriculum to the needs of those students who are not university bound. Following the addresses, they conducted a seminar on the topic.

PROF. W. W. SAWYER gave an address and demonstration reading to the Conference of East Ontario Mathematics Teachers at Ottawa, Oct. 14, and also at the Professional Day, Fort William, Oct. 20. Prof. Sawyer was in attendance at the in-service workshop, North York Kindergarten to Grade 9 teachers, Oct. 19.

PROF. MARGARET SCOTT spoke to the elementary teachers at York Central's Professional Development Day, Nov. 6. The topic was "Non-Print Materials in the School Library".

PROF. L. J. LAFAVE addressed representatives of the IBM World Trade Corporation regarding The College of Education's Business Teacher Education (Data Processing) program. The main theme of the conference was educational data processing. Representation included the United Kingdom, Sweden, Netherlands, Belgium, France, Switzerland, Italy and Brazil.

W. J. Gage published this month J. M. PATON's pamphlet entitled "Needed in Teacher Education: A Total University and Professional Commitment", in which he argues for a scheme of teacher preparation more closely integrated with the university than the present Ontario practice. The pamphlet is intended to be the first in a book which Gage will publish in 1968 as Volume 7 in its series of yearly collections of articles on education.

Library Science

PROF. MARGARET COCKSHUTT and PROF. KATHERINE PACKER attended the executive meeting of the Canadian Association of College and University Libraries, Montreal, Oct. 31, held in conjunction with the annual

meeting of the Association of Universities and Colleges of Canada.

PROF. JOHN MARSHALL attended a workshop in Library Technology held in Baltimore, Md., Oct. 20-21, devoted largely to discussion of the core curriculum in U.S. and Canadian library technician training programs. He also attended a meeting of the Library Technicians' Advisory Committee of the Niagara College of Applied Arts and Technology, held in Welland on Nov. 6.

PROF. FLORENCE MURRAY attended the Division Orientation Meeting of the American Library Association held in Chicago, Nov. 9-10.

PROF. PATRICK PENLAND spoke on "Television in Libraries" at the seminar on Media Communications, sponsored by the Public Relations and Publicity Committee of the Ontario Library Association, held at the Inn on the Park, Toronto, Oct. 26.

An "Open House" for the alumni of the School of Library Science was held at the School on Homecoming Weekend, Oct. 28, co-sponsored by the School of Library Science and its Alumni Association.

The director and several members of the staff visited the new School of Library and Information Science at the University of Western Ontario on Nov. 10.

Forestry

DEAN J. W. B. SISAM and PROFS. D. V. LOVE and K. A. ARMSON attended the joint annual meeting of the Canadian Institute of Forestry and the Society of American Foresters which was held in Ottawa, Oct. 15-19. Dean Sisam was chairman of the final session of the meeting.

Prof. Armson, who was recently elected president of the Ontario Professional Foresters Association, attended the Association's annual meeting held in Sault Ste. Marie, Nov. 15 and 16.

PROFS. J. L. FARRAR and J. J. BALATINECZ attended the Fourth Forest Biology Conference sponsored by the Technical Association of the Pulp and Paper Industry, which was held at the Pulp and Paper Research Institute of Canada, Pointe Claire, P.Q., Oct. 12 and 13. Prof. Balatinecz presented a paper, "The Mechanisms of Earlywood-latewood Differentiation in *Larix decidua*" which was co-authored by DR. R. W. KENNEDY, a former member of the staff and presently head of Wood Biology at the Vancouver Forest Products Laboratory.

Music

PROF. T. KENINS has been commissioned by the Saskatchewan Symphonic Society to

write a *Sinfonia Concertante* for flute, clarinet and orchestra. The first performance will take place in Saskatoon on March 3 next, with the Saskatoon Symphony Orchestra, conducted by David Kaplan.

PROF. OSKAR MORAWETZ' *Sinfonietta for Winds and Percussion* received two performances by the Detroit Symphony Orchestra with Sixten Ehrling as conductor. His *Passacaglia on a Bach Chorale* was recently played by the orchestras in Independence, Mo. and Michigan City, Mich., and his *Piano Concerto* was played in Madison, Wisc. In Canada *Carnival Overture* has been performed at the opening concert of the Centennial Hall in London, Ont. and in the Winnipeg summer series; his *Fantasy for Orchestra* in Sarnia, and *Divertimento for Strings* in Ottawa. Among the singers who included Prof. Morawetz' songs at EXPO were DONALD BELL, LOUIS QUILLICO, LOIS MARSHALL, VICTOR BRAUN and MAURICE BROWN. The International Service of the CBC has just released a record with a group of his songs sung by Jeanette Zarou.

ANDREW DAWES, first violinist of the Orford String Quartet, performed Prof. John Weinzwieg's *Violin Sonata* at Laval University in October, and his *String Quartet No. 2* was performed by the Orford String Quartet at EXPO on Oct. 24 and 27.

Graduate Studies

DEAN ERNEST SIRLUCK gave a paper at a conference at the University of Alberta, Oct. 6-7, on the occasion of the tercentenary of the publication of *Paradise Lost*.

ASSOCIATE DEAN EASTMAN presented a report on the Development of Master's Programs in Canadian Universities to the Canadian Association of Graduate Schools in Montreal, Oct. 30-31.

Dentistry

The following are the extramural lectures to be given during the month of December: DR. J. A. PEDLER at the Renfrew County Dental Society in Pembroke, on Dec. 6; DR. A. L. POSEN, at the Kent County Dental Society in Chatham on Dec. 7.

DEAN ROY G. ELLIS will attend a special meeting in Ottawa on Dec. 15, arranged by the National Research Council to consider a proposal that the Associate Committee on Dental Research affiliate with the Medical Research Council.

Pharmacy

PROF. J. G. NAIRN was elected secretary-treasurer of the Canadian Conference of

Pharmaceutical Faculties during the annual meeting held in Toronto in August.

Architecture

(Faculty of Architecture, Urban and Regional Planning and Landscape Architecture)

DEAN HOWARTH attended the Commonwealth Association of Architects' meeting in New Delhi in March and, as a member of the Board of Architectural Education of the C.A.A., visited several schools of architecture in the Far East and Australia. Dr. Howarth also gave a paper "The History of Architecture in Canada" to the annual meeting of the Royal Society of Canada at Carleton University in June and participated in the recent joint University of Toronto-University of the West Indies Conference. As vice-president of the Association of Collegiate Schools of Architecture, he attended a board meeting at the University of Oregon on Oct. 29-31. On Nov. 1 the Dean lectured to the Hamilton chapter of the Architectural Conservancy of Ontario on the subject of Charles Rennie Mackintosh (1868-1928) and the problems of conservation; a similar talk was given to the York Pioneer and Historical Society on Oct. 16.

PROF. D. H. LEE addressed a meeting of the Ontario Concrete Block Association on "The Provisions for Masonry Construction of the National Building Code of Canada 1965, and their Influence on Masonry Construction". He also presented a paper "Construction de Gratte-Ciels en Mur Porteur" at the Conférence Régionale de Québec de l'Association Nationale des Producteurs de Béton in Montreal.

PROF. J. H. ACLAND presented an address in the Centennial Lecture series "Studies in Canadian Art" on the topic of "Architecture Today in Canada" at the National Gallery in Ottawa in June. He also addressed the School of Architecture, Tucson, and the Tucson chapter of the American Institute of Architects on "A Sense of Place".

PROF. Y. Y. JUNG is this session the first visiting associate professor in architectural design at the graduate School of Architecture and Planning at the Massachusetts Institute of Technology.

PROF. A. J. DIAMOND attended a seminar on "Ekistics-Problems of Human Settlement" in Athens in July, and delivered a lecture on "Graduate Work at the School of Architecture" at the University of Natal, South Africa. He has been awarded a

two-year grant through the Centre for Urban and Community Studies to study "Housing-Density, Distribution and Cost". Prof. Diamond was a juror for the Canadian Structural Clay Association Awards of 1967.

PROF. STANLEY R. KENT was one of four international speakers participating in the Department of Industry Conferences on Modular Coordination for Senior Management in the Building Industry. The one-day conferences were held in Halifax, Toronto, Winnipeg, Edmonton, Vancouver and Montreal and brought together over 1,000 architects, engineers, manufacturers, contractors and administrators.

DR. GERALD HODGE presented a paper to the fourteenth United States annual meeting of the Regional Science Association entitled "Urban Structure and Regional Development" at Harvard University.

PROF. MICHAEL HOUGH attended the School Design Workshop sponsored by the Ontario Department of Education, where he delivered a paper on "The Principles of Site Development for Elementary Schools"; he was also guest critic at the Rhode Island School of Design and gave an address to the Connecticut chapter of the American Society of Landscape Architects at their October meeting.

Visiting lecturers at the Faculty this term have included: SIR HUGH CASSON, the English architect who is consultant on National Defence Headquarters in Ottawa, spoke about his own work as architect and planner, with particular reference to universities and the problems of combining old and new buildings; CONRAD LEHMANN of Berlin, West Germany, who spoke on "Multi-Storey Suspension Structures"; S. WRIGHT of Waterloo, who conducted seminars for planning students on his research work in systems application to the functional problems of settlements; and J. B. JACKSON, editor of *Landscape*, whose subject was "The Public Landscape and the Architect".

Hygiene

DR. A. J. RHODES represented the School of Hygiene at an informal meeting called by the Association of Universities and Colleges of Canada in Montreal on Oct. 31. At this meeting representatives of several university teaching divisions and professional associations in the field of health sciences met and discussed mutual problems, particularly in regard to students, shortage of staff, duplication of activities between neigh-

bouring universities, the role of community colleges, the concept of the health team and other related matters. Dr. Rhodes was the keynote speaker at the Seventeenth Annual Meeting of the Nova Scotia Branch, Canadian Public Health Association held in Kentville, N.S., Nov. 8 and 9. This meeting was attended by over 200 members of the Nova Scotia Branch.

DR. KENNETH F. CLUTE participated in a seminar conducted by the Milbank Memorial Fund for its Faculty Fellows from Oct. 17 to 20 in New York. Then, in company with the Faculty Fellows and the staff of the Fund, Dr. Clute attended the annual meeting of the Teachers of Preventive Medicine and the annual meeting of the American Public Health Association in Miami Beach from Oct. 21 to 27. Dr. Clute has been nominated for membership in the subcommittee on Public Health Law of the Program Area Committee on Public Health Administration of the American Public Health Association.

DR. F. D. MOTT has been awarded the Ernest P. Boas Memorial Fund Award for the Advancement of Social Medicine. This award is maintained under the auspices of The Montefiore Hospital, New York City, to recognize special contributions in improved application of medicine to the needs of society.

PROF. A. M. FALLIS gave two lectures to the staff and students of the Department of Microbiology, University of Montreal, on Oct. 30 on "Life Cycles and Interrelationships of Malaria Parasites" and "Attraction and Feeding Behaviour of some Blood Sucking Flies in Relation to Transmission of Parasites".

Staff members of the Department of Microbiology were invited by DR. S. SONEA, head of the Department of Microbiology and Immunology, Faculty of Medicine, University of Montreal, to present a series of seminars and lectures at the University of Montreal. On Oct. 25 and 26 PROF. R. PAKULA presented the following lectures, as the first of a series: "The Genetic and Molecular Approach to Classification of Bacteria", and "Problems in Bacterial Transformation".

DR. Z. I. SABRY attended the International Conference on Single Cell Protein at the Massachusetts Institute of Technology on Oct. 9 to 12. The conference was sponsored by the Department of Nutrition and Food Science and the Sloan School of Management of the Massachusetts Institute of Technology. The purpose of the con-

ference was to discuss the present status and potential development in the use of proteins from unicellular organisms as human food. Papers presented at the conference dealt with the world shortage of protein and the possible contributions of single cell protein to the alleviation of this shortage. The conference was supported by grants from the Food Foundation, the Alfred P. Sloan Foundation, and the United Nations WHO, FAO and UNICEF.

DR. W. STANLEY WALTON, until recently professor and head of the Department of Public Health Administration, London School of Hygiene and Tropical Medicine, visited the School of Hygiene during the week of Nov. 6. In addition to lecturing to the Diploma courses in Health Sciences, he presented a seminar on Nov. 7 on "The Thousand Families Study in Newcastle upon Tyne".

DR. R. D. BARRON presented two lectures on Nov. 2 at the Emergency Health Services Institute, Barrie, Ontario, on "The Role of the Federal and Provincial Emergency Health Services", and "The Role and Deployment of the Advanced Treatment Centre".

DR. C. A. ROBERTS attended a meeting of Expert Committee of the Canadian Commission on Children on Oct. 2 and 3, and also the meeting of the Canadian Teaching Hospitals held in association with the Canadian Medical Colleges in Ottawa, Oct. 4 to 6. Dr. Roberts has been appointed to the WHO Expert Advisory Panel on Mental Health. He also has been appointed a member of the Council and treasurer of the Canadian Council on Hospital Accreditation.

PROF. A. P. RUDERMAN has been appointed to the Committee on International and Medical Care of the Medical Care Section of the American Public Health Association.

Business

As a member of the Prime Minister's Task Force on Labour Relations, PROF. JOHN CRISPO visited a number of leading trade union, management and government officers in several European countries for extensive meetings for three weeks during August and September to discuss the state of employee-employer relations in Europe. He also attended the First World Congress of the International Industrial Relations Association in Geneva from Sept. 4 to 8 as a representative of the Canadian Industrial Relations Research Institute, and there delivered a paper on "Human Adjustment to

Industrial Conversion: A Canadian Experiment". He was named chairman of the recently formed Ontario Union-Management Council. He also addressed a number of organizations, including the Canadian Electrical Manufacturers' Association and the Canadian Pulp & Paper Association on the current state of union-management relations in Canada.

PROF. J. D. KYLE was re-elected president of the Federation of Canadian Personnel Association.

PROF. J. V. POAPST addressed the Ontario Credit Union Managers Conference in Toronto on Nov. 7. His subject was "Personal Finance: A New Approach".

On Oct. 16 PROF. J. A. SARJEANT addressed the Hamilton Chapter of the Systems & Procedures Association on the subject "The Role of Operations Research in Systems Design". On Oct. 26 and 27 he participated in the seminar "Managing the Engineering Function", conducting the session on "Planning and Control in the Engineering Function". He also has recently been appointed chairman of the Tenth Anniversary Conference of the Canadian Operational Research Society, to be held at the University of Toronto, May 9-10, 1968.

PROF. M. S. SOMMERS presented a paper to the annual meeting of the Southern Marketing Association in New Orleans on Nov. 18. His subject was "Some Aspects of Product Symbolism in the Negro and White Community".

Connaught Medical Research Laboratories

DR. S. LANDI attended the XIXth International Tuberculosis Conference, held in Amsterdam, Oct. 3-7, and presented a paper co-authored by DR. H. R. HELD, entitled "Use of Tuberculin PPD-C¹⁴ to Evaluate the Efficacy of Various Substances to Prevent Adsorption of Tuberculo-protein to Glass Surfaces".

DR. V. C. R. WALKER attended, as an invited observer from Canada, the First International Seminar on Rabies for the Americas, at the Pan American Zoonoses Center, Buenos Aires, Argentina, Sept. 24-29.

DR. A. KOLIN, of Czechoslovakia, has been awarded a grant by the Medical Research Council, to spend one year as visiting scientist in the Connaught Medical Research Laboratories, where he will conduct research on hypersensitivity to tuberculins.

Aerospace Studies

DR. J. H. DELEEUEW attended the 4th annual meeting of the AIAA at Anaheim, Oct. 23-26. He also participated in a meeting of the NRC Sub-Committee on Plasma Physics on Oct. 27 in Montreal.

DR. I. I. GLASS and W. CZERWINSKI, on Oct. 8 visited Dr. V. C. Dawson and Mr. R. Waser of the US Naval Ordnance Laboratory, Washington, to discuss the design of the UTIAS Implosion Driven Hypervelocity Launcher, Mark II, which will have a 1 in. dia. barrel and a 30 in. dia. hemispherical implosion chamber capable of firing 1 in. dia. $\times$ 1 in. long cylindrical projectiles. On Oct. 9 Dr. I. I. Glass visited NASA Headquarters and the Air Force Office of Scientific Research to discuss current research, and obtain from the latter support for the 7th International Shock Tube Symposium, which is to be held at the University of Toronto June 23-25, 1969. Dr. Glass is the symposium chairman.

From Oct. 12-16 DR. G. N. PATTERSON visited the Aerospace Research Laboratory at Wright-Patterson Air Force Base, Dayton, Ohio to discuss problems of hypervelocity flight in the upper atmosphere and to consider details relevant to grants and contracts. Dr. Patterson participated in the International Meeting of the AIAA, R.Ae.S and CASI in Los Angeles, Oct. 17-20. He also attended the annual meeting of the AIAA from October 23-27. Considerable time was spent on the subject of Aerospace Engineering Education. Dr. Patterson has been elected a member of the Executive Committee of the Aerospace Division of the American Society of Engineering Education and is participating in the organization of the aerospace part of the annual meeting for 1968. On Oct. 24 a visit was made to Stanford University, San Francisco, to participate in a meeting on grants and contracts relevant to satellite experiments. He presented a lecture to the Toronto Branch of the CASI on the subject of "The Role of the Research Institute in University-Industry Cooperation" (with special reference to the Aerospace Sciences) on Nov. 2.

DR. H. S. RIBNER attended a meeting of the NRC Associate Committee on Aerodynamics in Ottawa, Sept. 12. He presented different versions of a lecture on "The Physics of Jet Noise" to the Ling-Temco-Vought Research Center, Dallas, Texas, Oct. 4, to the Department of Mechanical Engineering, McGill University on Oct. 12 and to the noise research group of the

NASA Lewis Research Center, Cleveland on Oct. 23.

DR. P. A. SULLIVAN gave a lecture on "The Uses of Photography in Aerospace Research" to the Canadian Institute of Professional Photographers in Toronto on Nov. 7.

DR. S. J. TOWNSEND and three students visited DR. L. NICHOLS of the Lewis Research Center, NASA, in Cleveland on Oct. 13. Discussions were held concerning the NASA experimental program in MHD Power Generation and the forthcoming experiments in the UTIAS 3-MW research facility.

Bio-medical Electronics

Joint work of PROF. MOODY and JOHN SMITH (graduate student) was presented at the symposium on Sonics and Ultrasonics, Vancouver in October, and at IEEE meetings on Bioengineering in Boston in November.

DR. E. LLEWELLYN THOMAS spoke at the University of Minnesota Institute of Agriculture on "The Machine-Man Interface" during a conference on "The Human Dimension".

DR. JAN KRYSPIK of the Research Institute of Medical Electronics and Modelling in Prague, Czechoslovakia, is spending one year at the Institute as visiting scientist under sponsorship of the Medical Research Council.

Child Study

MISS DOROTHY MEDHURST addressed the Samia Nursery Education Association on Sept. 15 and 16, giving an illustrated talk and a workshop on "Art in the Nursery School Program".

MRS. ELDA BOLTON visited the Children's Centre at the State University of New York in Syracuse, where a research program is being conducted in the study of deprived children in an educational setting.

DR. M. F. GRAPKO spoke at the Annual Teachers' Conference at Saint John, New Brunswick, held Oct. 19 and 20. The conference was sponsored jointly by the Canadian Mental Health Association and the St. John Teachers' Association. The theme was "Mental Health in School Practice". Dr. Grapko attended the National Assembly meetings of the International Federation for Parent Education, held in Paris, Oct. 26-28. He was re-elected to a second three year period on the administrative committee of the federation. Prof. Grapko also visited the Rousseau Institute in Geneva and the

Summerhill School in Leicester, England.

MRS. ADA SCHERMANN addressed the teachers taking part in the professional development course offered by the Peterborough Board of Education, in Peterborough, on Oct. 25 and Nov. 2. Her topic was "Language Development".

DR. MARY NORTHWAY has been invited to be the Canadian representative on the honorary committee of the first International Congress of Social Psychology and Sociometry to be held in Prague, Sept. 1968.

Great Lakes Institute

DR. A. D. MISENER attended a meeting of the Canadian Research Managers' Association on Oct. 4 at Sheridan Park. Also at this time he was present at the official opening of the new building for the Ontario Research Foundation. Dr. Misener was director of the O.R.F. prior to coming as director of the Great Lakes Institute. In October he was appointed a member of the University of Toronto Research Board.

DR. P. H. JONES prepared a report on the status of water pollution research in Canada, for the Privy Council.

DR. F. E. J. FRY attended a meeting, as consultant, of the San Francisco Bay-Delta Water Quality Control Board on Oct. 27 and 28 in San Francisco and a meeting of the National Technical Advisory Committee on Water Quality Criteria on Oct. 31 and Nov. 1, in Washington.

DR. D. V. ANDERSON was appointed editor and Mrs. J. S. SEDDON appointed associate editor of the *Proceedings* for the International Association for Great Lakes Research.

DR. G. K. RODGERS attended two meetings in October in connection with the International Field Year for the Great Lakes which is engaged in a cooperative hydrologic study as a part of the International Decade. Dr. Rogers is a member of three sub-committees for the IFYGL with the interest being: Water Movement, Terrestrial Water Balance and Lake Energy Budget. The IFYGL is co-sponsored by Canada and the United States and is engaged in a coordinated program on the Great Lakes as part of the International Hydrologic Decade. The IHD is a cooperative international, inter-governmental effort to: strengthen the scientific base for water use and conservation; stimulate education and training in hydrology and improve the ability of all countries to cope with their water problems. By July, 1967, nearly 100 countries were participat-

ing in the International Hydrologic Decade.

Staff of the Great Lakes Institute and the Royal Ontario Museum are cooperating on a series of lectures—"The Great Lakes as an Environment", Wednesdays at 8 p.m., Jan. 10 to Mar. 13, 1968.

Centre for Medieval Studies

PROF. JOHN LEYERLE read a paper on "Chaucer and the Theatre" at the Festspiel of Medieval Drama held at the University of Waterloo on Nov. 4 and 5. PROFS. KENNETH KEE, DAVID KLAUSNER and L. K. SHOOK also attended the conference. On Nov. 7 Prof. Leyerle read a paper on "The Interlace Structure of *Beowulf*" at the Ohio State University in Columbus. Prof. Leyerle is chairman of the Medieval Drama Conference of the Modern Language Association at the annual meeting scheduled for Dec. 27 to 29 at Chicago. The University of Toronto has undertaken to support the cost of taking the production of the two Towneley plays to the M.L.A. meeting. They will be played in the Grand Ballroom of the Palmer House at 3.00 p.m. on Dec. 29.

Pontifical Institute of Mediaeval Studies

PROF. J. J. RYAN attended the International Congress on the History of the "Sollicitudo omnium Ecclesiarum" held in Rome, Sept. 25-29. He read a paper entitled: "The Doctrine of a 'Principatus sollicitudinis omnium Ecclesiarum' in the 11th Century Canonical Collections".

PROF. M. M. SHEEHAN attended the Sixth Midwest Medieval History Conference at Creighton University, Omaha, Nebraska, Oct. 21, and read a paper on "Ecclesiastical Courts: Current Lines of Investigation".

PROF. JOSEPH OWENS read a paper entitled "Universality in Aristotle" at the University of Waterloo, Oct. 19.

PROF. LAURENCE K. SHOOK attended the meeting of the Executive Committee of the Mediaeval Academy of America, Cambridge, Mass., Oct. 20. On Oct. 22 he read a paper entitled "New Directions in the Old Church" at the bi-centenary of Assumption Parish, Windsor.

PROF. E. A. SYNAN attended the annual meeting of the American Academy of Religion, participating in the special session on Judaeo-Christian relations, Oct. 22.

PROF. JAMES MCCONICA was a commentator at the Conference on a Reappraisal of the Reformation held in New York under the joint sponsorship of Fordham University

and Union Theological Seminary, Oct. 20.

PROF. JOHN WATT of the University of Hull visited the Institute for a week during October and delivered a lecture on "Hosiens and the College of Cardinals", on Oct. 27.

PROF. MICHAEL GOUGH of the British Institute of Archaeology, Ankara, Turkey, visited the Institute and read a paper on the "Alahan Monastery: the Campaigns of 1965 and 1967", on Nov. 10.

Russian and East European Studies

PROF. JOHN HAZARD, Professor of Public Law, and on the staff of the Russian Institute at Columbia University, gave a seminar sponsored by the Centre and the International Studies Programme on "African Socialism and the Soviet Model", on Nov. 10.

On Nov. 29, the Centre, the International Studies Programme and the Department of Political Economy presented a seminar by PROF. ERWIN HERLITZIUS, Director of the Institute for Philosophy, Technical University, Dresden, on "The Building of Socialism in the German Democratic Republic: Results, Problems, Tasks, and Predictions".

O.I.S.E.

(Ontario Institute for Studies in Education)

An invitational seminar series sponsored by the Department of Educational Planning began in November and will continue into March. Participants in the November seminars were DR. DONALD BLUMBERG, Philco-Ford Corporation (Nov. 1), PROF. COLIN S. LEICESTER, Cambridge University (Nov. 8) and PROF. KJELL EIDE, Educational Planning Board, Norway (Nov. 15). PROF. THOMAS GREEN, Syracuse University, will participate in the Jan. 31 seminar.

PROF. G. S. TRACZ presented a paper entitled "Nonlinear Programming and Second Variation Schemes" (co-author, G. HORNE, Industrial Engineering), at the International Symposium on Mathematical Programming, Princeton University, Aug. 14-18. Dr. Tracz also attended the 72nd Summer Meeting of the American Mathematical Society at the University of Toronto, Aug. 29-Sept. 1, and a symposium on "Operations Analysis of Education", sponsored by the U.S. Office of Education, Nov. 19-22, in Washington, D.C.

PROF. E. BROCK RIDEOUT was a member of a panel discussion "The Financing of

Education" at the annual convention of the Canadian School Trustees' Association in Saskatoon on Sept. 26. He was also a member of the symposium on Social Policy: Local Control of Education sponsored by the Department of Educational Administration and Educational Foundations of the School of Education, University of Saskatchewan, held Oct. 5-7 in Saskatoon.

PROF. GEORGE E. FLOWER addressed the Third Congress of l'Association Internationale de Pedagogie Experimentale de Langue Française in August at the University of Sherbrooke. His topic was "Un Bilan de la Recherche Pedagogique au Canada Anglais".

In September Prof. Flower was elected to the executive committee of the Canadian Education Association.

PROF. ALAN F. BROWN has been elected the first president of the newly-formed Canadian Educational Researchers' Association at the Canadian Conference on Educational Research held at the University of Manitoba, June 8-10. Earlier the same week Dr. Brown was named vice-president of the Canadian Association of Professors of Education at their annual meeting held at the University of Ottawa. During the Manitoba Conference Dr. Brown presented a paper on consensus as a function of leadership frequency and style, since requested for publication in *The Journal of Experimental Education*. At Ottawa he reviewed the Canadian contribution to organizational research in education from a paper prepared for *The Review of Educational Research*.

DR. SHMUEL M. AVITAL will give a paper on "Language of Exposition and Its Influence on Mathematics Learning" at the American Educational Research Association Conference in February, 1968.

Dr. Avital attended a seminar at the Department of Mathematics Education, University of Pennsylvania, Graduate School of Education, on Sept. 22. The topic was "Some Psychological Issues in Learning of Mathematics".

DR. WILLIAM MICHELSON presented a paper, "Potential Candidates for the Designers' Paradise: A Social Analysis from a Nationwide Survey" at the annual meeting of the American Sociological Association, San Francisco. Prof. Michelson addressed the monthly meeting of the Toronto Area Research Conference on Nov. 23.

PROF. E. G. HARVEY was moderator for the Sept. 7-8 Department of Indian Affairs Conference on Cross Cultural Differences.

DR. CICELY WATSON attended the Sum-

mer IIEP Seminar for Professors of Educational Planning Economics in Paris, the Annual Conference of the Canadian Education Association in Regina in September, and spoke to the International Conference on the World Crisis in Education, Williamsburg, Va. on Oct. 5. Dr. Watson was also a member of a Phi Delta Kappa symposium at the University of Minnesota on Nov. 12.

DR. L. D. MCLEAN gave a paper entitled "Modern Technology in the Education of Migrant Children" at the Bucknell Conference on Learning Problems of the Migrant Child, Aug. 13-18, sponsored by Bucknell University, Lewisburg, Pa. Aug. 29-31 he attended the National Symposium for Professors of Educational Research, sponsored by Phi Delta Kappa, held at the University of Maryland, Centre for Continuing Education, where he made a presentation on The Teaching of Elementary Statistics. At the Canadian Education Association's 44th Convention, Sept. 27-29, at Regina, Dr. McLean presented a paper "What Computers Can Do" in the session: Education—What Its Future Could Be. He also presented a paper entitled "Technology and the Control of Education" at the Fall Conference of the University League for Social Reform, at Scarborough College, on Oct. 14.

DR. R. G. RAGSDALE gave a paper at the Conference on Data Banks and Remote Access Computing, Sept. 19-20, at the University of Manitoba.

Royal Ontario Museum

P. C. SWANN attended meetings of the Canadian Art Museums Directors Organization, Oct. 25-27, in Ottawa. While there he was present at the opening of the Centennial exhibition, "A Pageant of Canada". On Nov. 10 Mr. Swann attended museum meetings at the Montreal Museum of Fine Arts.

J. F. BROOK visited museums and art galleries in Washington, D.C. and New York, Oct. 31-Nov. 4, to examine administrative procedures, display techniques, sales desks, food services, and other aspects of museum organization.

MRS. H. M. DOWNIE toured museums in Richmond, Va., Washington, D.C., and New York Oct. 30-Nov. 3. She studied adult programs, travelling exhibition services, and other museum extension activities.

H. HICKL-SZABO was in Europe, Sept. 11-Oct. 3, to research a number of objects in the ROM European Department collections. He visited Paris, Prague, London, Munich, and Vienna, studying a number of private

collections, exhibitions and collections of museums.

MRS. N. LEIPEN, at the invitation of the American School of Classical Studies, spent the latter part of August and September in Athens. There she continued her study of the bronze finds from the Agora for publication in the series of the Agora Excavation Reports. On Oct. 31 Mrs. Leipen gave a seminar at the Ontario College of Art, Department of Evening Classes, on "Coptic Art and Textiles".

DR. V. B. MEEN attended meetings in Kingston Aug. 31–Sept. 2, of the Geological Association of Canada and the Mineralogical Association. On Oct. 24, in Montreal, he spoke on "The Crown Jewels and their Part in the History of Iran". It was one of a series of lectures celebrating Iranian Cultural Week, sponsored by the Department of Islamic Studies, McGill University, and the Iranian National Oil Company. On the same day Dr. Meen also addressed the Women's Art Society of Montreal on the same subject.

DR. JOHN McANDREWS conducted a seminar at Cornell University on Oct. 27 on "Late Pleistocene Environmental Change and Mammal Extinction". Dr. McAndrews visited the Fernbank Interglacial Site on the shore of Cayuga Lake on Oct. 28 to obtain pollen and macrofossil samples.

DR. E. S. ROGERS attended the First National Northern Research Conference, Oct. 30–31, on behalf of the Committee for Arctic and Subarctic Research, University of Toronto. On Oct. 24 he spoke to the Ontario College of Art on "Primitive Weaving". At the Fourth National Northern Development Conference Nov. 1–3, Dr. Rogers was chairman of a panel discussion on "The End of an Ageless Solitude".

DR. WALTER M. TOVELL led the Ontario Geography Teachers' Association annual field trip, Sept. 29–Oct. 1, this year to Ottawa. From Oct. 6 to 12 he was one of a group of scientists aboard the Government Research Vessel *Theron* engaged in a coring program of sediments in Lake Ontario. He spoke on "The Niagara Escarpment" to the South Peel Naturalists' Club, Oct. 16; to the Toronto Elementary School Science Association, Oct. 24; and to those attending the Etobicoke Board of Education Junior and Intermediate Geography In-Service Course, Oct. 25. From Oct. 18 to 20 Dr. Tovell took part in a tour of the Niagara Escarpment by members of the Ontario Conservation Authorities. He chaired a panel discussion on "Geology in the Ontario Four-Year Program" Nov. 4 at the Centennial Science Teachers' Conference in Toronto. On Nov. 8, Dr. Tovell, who is chairman of the Canadian Audubon Society, presided at the society's annual banquet at which His Royal Highness, the Duke of Edinburgh, was guest speaker.

DR. A. D. TUSHINGHAM returned to the Museum on Oct. 14 after completing the final season of the joint British School of Archaeology-Royal Ontario Museum excavation of the Old City of Jerusalem. He also visited Kuwait and Saudi Arabia to discuss with archaeological authorities in the two countries possibilities for future Museum excavation.

Books

Pictorial Guide to the Stars. By H. C. King. Thomas Y. Cromwell Company, New York.

The Vendée. By Charles Tilly, paperback edition with new preface. John Wiley, N.Y., 1967.

